

NOTE ON SOME FRESH WATER MOLLUSCA INHABITING
TEMPORARY PONDS IN WESTERN CANADA

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In the course of malacological investigations in western Canada a number of temporary ponds have been visited. One of these has been examined in some detail, systematic observations on it having been made over a period of three years. An account of the plants and animals of this pond will be given in a later paper. Since there are few records relating to the occurrence of gastropods in these interesting habitats it has been considered that a list of the species found in these situations in western Canada would be of interest.

In most parts of western Canada spring often comes rather suddenly, with the result that temporary ponds form from the melting snows and spring rains in the numerous slight depressions over the prairie and sparsely wooded country. In these ponds a large number of plants and animals flourish for a short time each year, usually from April to June. Perhaps the most characteristic of these are *Eubbranchipus gelidus* and *Lepidurus couesii*. In a pond of this kind in the Municipality of St. Vital, Manitoba, the following mollusks have been found on many occasions, and are undoubtedly permanent residents of the pool.

Lymnaea palustris (Müller) *Planorbis umbilicatellus**Lymnaea caperata* (Say) Cockerell*Planorbis exacuus* Say *Planorbula christyi* Dall*Aplexa hypnorum* (Linné)

It is interesting to find that so many species are able to withstand the rigorous conditions of existence in this situa-

tion, in which, following the drying of the pond, the organisms are "baked" for two months and subsequently "frozen" for several more. With the first signs of spring they are active, for on the first day the ponds have water in them many snails are to be seen. A number of other temporary ponds in the vicinity of Winnipeg have been examined, and it appears that the list given above includes the species usually found in these situations in this region. *Planorbula christyi* Dall has been found in large numbers in ponds nears Wadena, Sask., by Mr. Alexander Bajkov.

LAND SHELLS OF ALACHUA CO., NORTHEASTERN FLORIDA

BY E. G. VANATTA

The following species of land shells were picked from leafmould collected at "The Devil's Mill Hopper" and "Buzards Roost" near Gainesville, Alachua County, Florida by Mr. James B. Clark.

<i>Helicina (Oligyra) orbiculata</i> Say.	<i>Helicodiscus parallelus</i> Say.
<i>Polygyra pustula</i> Fér.	<i>Succinea campestris unicolor</i> Tryon.
<i>Polygyra hopetonensis</i> Shuttl.	<i>Gastrocopta rupicola</i> Say.
<i>Drymaeus dormani</i> W. G. B.	<i>Gastrocopta corticaria</i> Say.
<i>Euglandina rosea</i> Fér.	<i>Gastrocopta armifera</i> Say.
<i>Retinella dalliana</i> 'Simps.' Pils.	<i>Gastrocopta contracta peninsularis</i> Pils.
<i>Glyphyalinia indentata</i> Say.	<i>Gastrocopta pentodon</i> Say.
<i>Euconulus chersinus</i> Say	<i>Gastrocopta pentodon tappaniana</i> Ad.
<i>Guppya sterkii</i> Dall.	<i>Gastrocopta pentodon floridana</i> Dall.
<i>Zonitoides arborea</i> Say.	